|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | | C6H12O6 + 6O2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | | 6H2O + 6CO2 | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| 36 ATP | | 36 ATP | | 36 ATP | | 36 ATP | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| Glucose | | Glucose | | Glucose | | Glucose | |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP | 2ATP | 4ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP | NADH | Net 2ATP |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| Glycolysis | | Glycolysis | | Glycolysis | | Glycolysis | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | | 2 Pyruvates | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| C6H12O6 | | C6H12O6 | | C6H12O6 | | C6H12O6 | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | | Acetyl Co-A | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
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| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |
| 2 CO2 | | 2 CO2 | | 2 CO2 | | 2 CO2 | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
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| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
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| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
| Krebs Cycle | | Krebs Cycle | | Krebs Cycle | | Krebs Cycle | |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP | 4CO2 | 2 ATP |
| NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH |
| NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH |
| NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH |
| NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH | NADH  FADH |

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| --- | --- | --- | --- |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH | 6O2 +NADH +FADH |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP | 6H2O + 32 ATP |
| Electron Transport Chain | | Electron Transport Chain | |
| Electron Transport Chain | | Electron Transport Chain | |
| Electron Transport Chain | | Electron Transport Chain | |
| Electron Transport Chain | | Electron Transport Chain | |
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